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### (54) **PRODUCTION OF TAXOL**

(57) Abstract:

**PURPOSE:** To produce a large amount of taxol having an antiulcer activity by culturing a cell of a Taxus plant or a group of cells thereof while intermittently or continuously exchanging a liquid medium with a fresh medium and collecting the product composed of taxanes containing taxol from the cultured solution.

**CONSTITUTION:** A cell or a Group of cells of a Taxus plant (e.g. Taxus brevifolia Nutt) are cultured on a solid medium containing auxin such as 2,4-dichlorophenoxyacetic acid or naphthaleneacetic acid and cytokinin to obtain a cultured cell (callus). The obtained callus is then fixed to a carrier according to the inclusion method, the adsorption method or the bonding method and culture<sup>4</sup> while keeping the concentration of the cells in the culture system higher than that in a culture medium taken out from the culture system. The liquid medium is continuously or intermittently exchanged through a membrane or a net with a fresh medium and the product composed of taxanes

containing taxol is collected from the culture medium used for culture, thus mass-producing the objective taxol useful, e.g. as a synthetic raw material for an anticancer agent on an industrial scale.

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FURUSAKI SHINTARO;  
SHIGETA JUNICHI;  
SATO KENJI;**Assignee: **ISHIKAWAJIMA HARIMA HEAVY IND CO LTD**  
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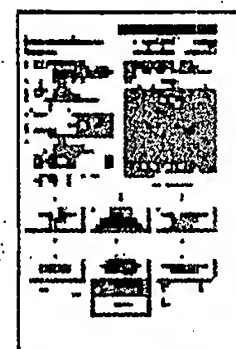
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Family: **None**Forward  
References:

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	<a href="#">US6428989</a>	2002-08-06	Yukimune; Yukihito	Mitsui Chemicals, Inc.	<a href="#">Method for producing taxane-type diterpenes</a>

Other Abstract  
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